

Today's Presentation



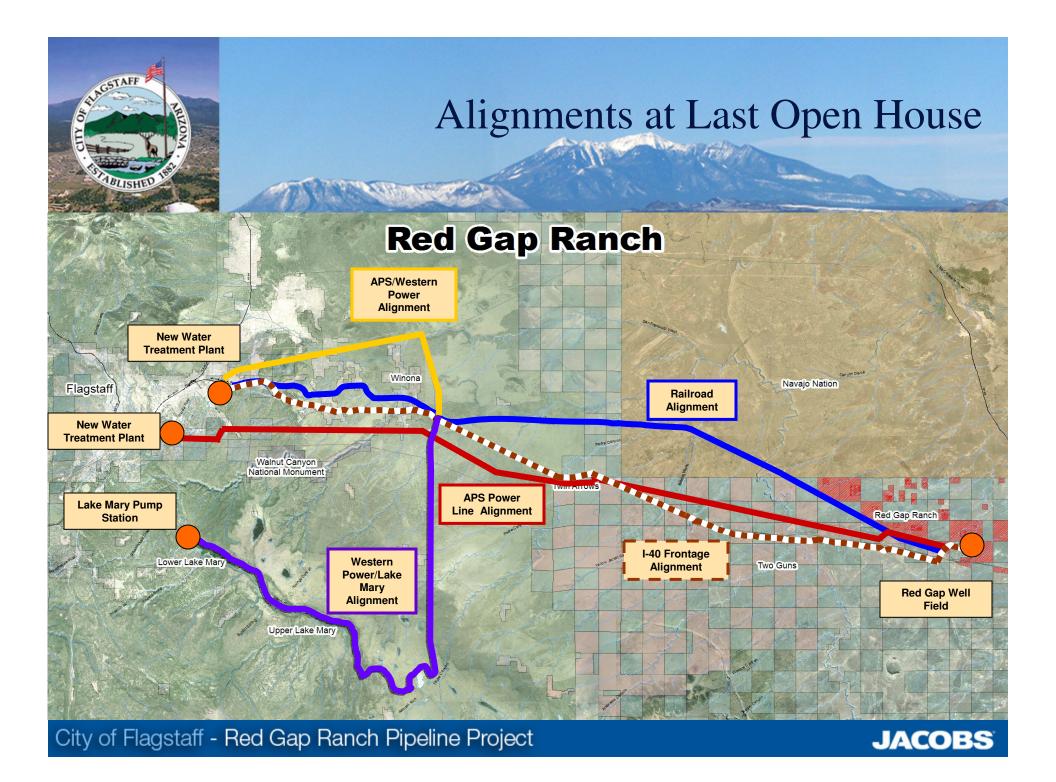
- © Update on progress since last Open House (Sept. 18, 2008)
- Present results of alignment analysis
- Present alignment recommendation



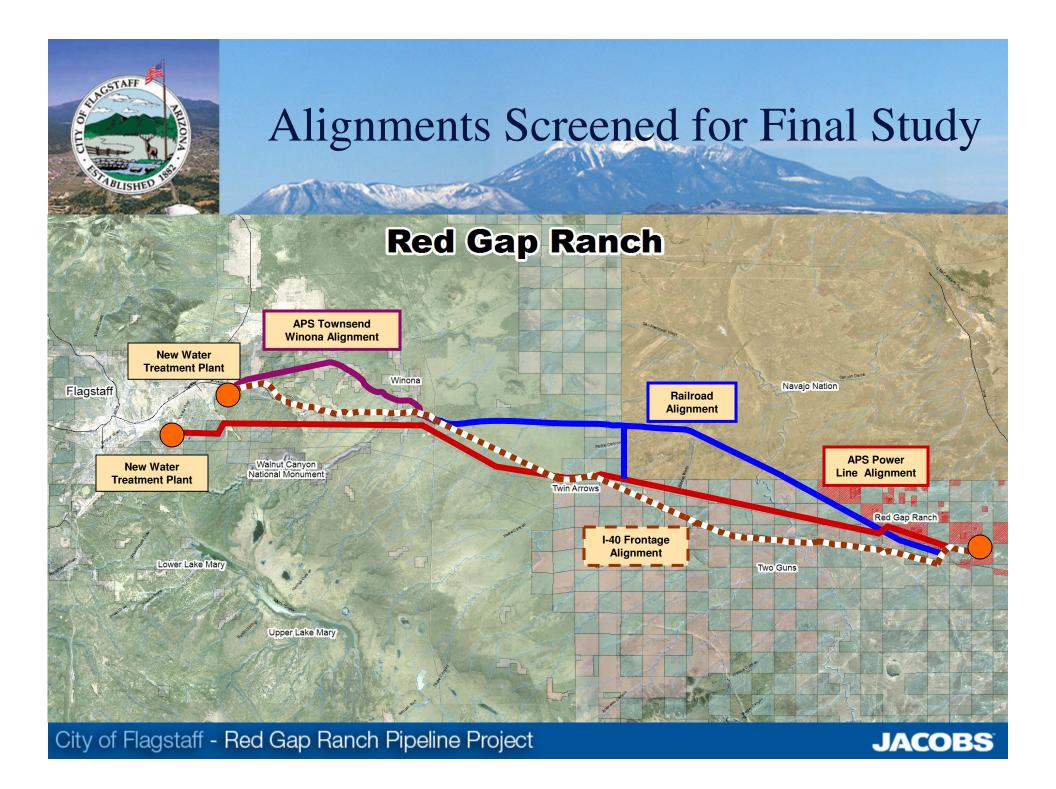
Progress Update

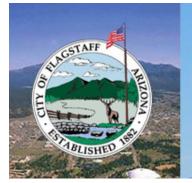


- @ Pipeline sizing and costing
- Alignment evaluations
 - Geotechnical
 - Environmental
 - Land
- Modeling
- Workshop #2 (Nov. 12)

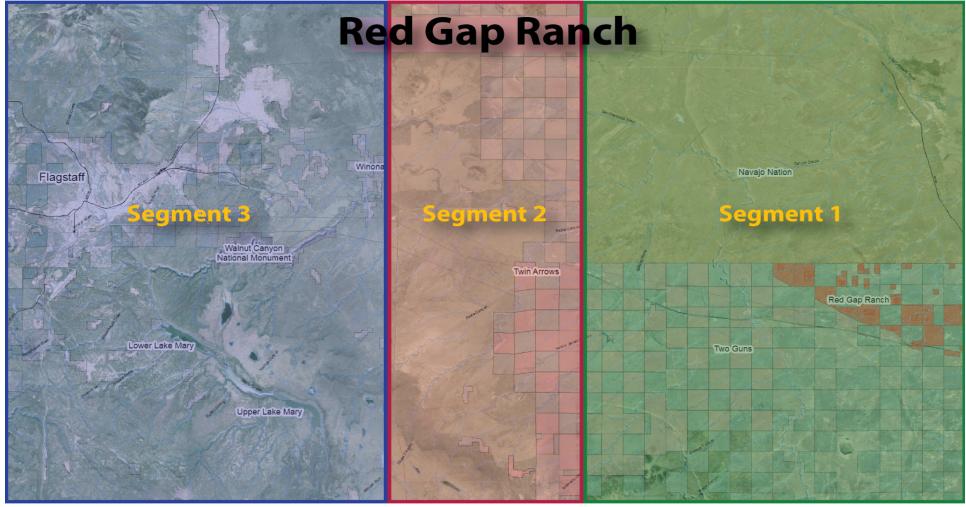


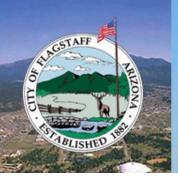
Alignment Feedback From Water Commission and Open House **BNSF Railroad Alignment Red Gap Ranch** Rough Terrain Construction Complexity **ATT Fiber Optic Alignment** Safety Issues No clear pa **Western APS Alignment** High comi More direct route (Townsend/Winona) •Extremaly **New Water** •More clearing required than alternative **Treatment Plant** Navajo Nation Flagstaff Railroad **Alignment New Water** Treatment Plant **APS Power** Line Alignment **Telephone Line Alignment** Extends through Walnut Canyon Red Gap Ranch Clearing of national forest Heavy environmental impacts I-40 Frontage **Alignment** Lower Lake Mary **Lake Mary Refined Alignment** Additional length and cost (additional\$32M to \$37M) Upper Lake Mary Highest Elevation Geotechnical obstacles (Basalt) Numerous environmental and archeological obstacles



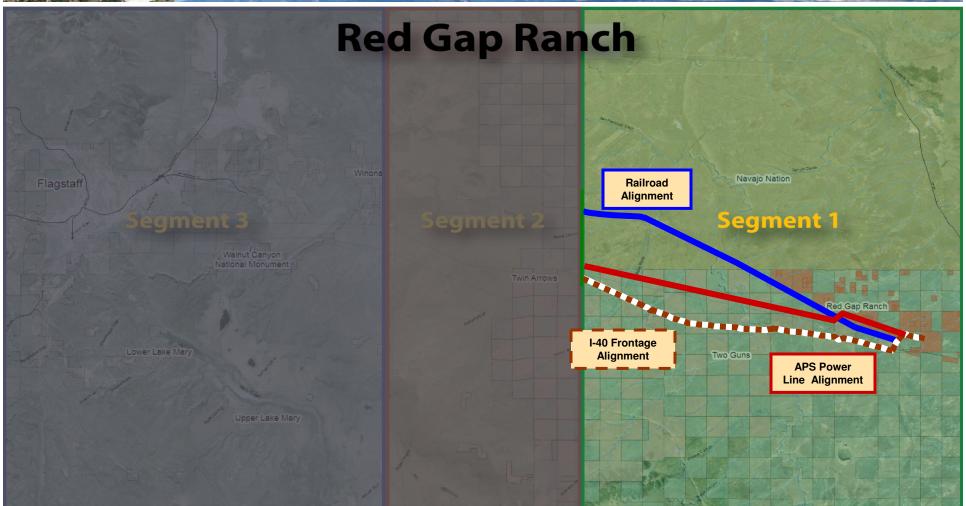


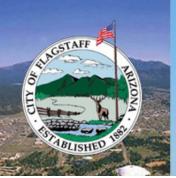
Segment Definition



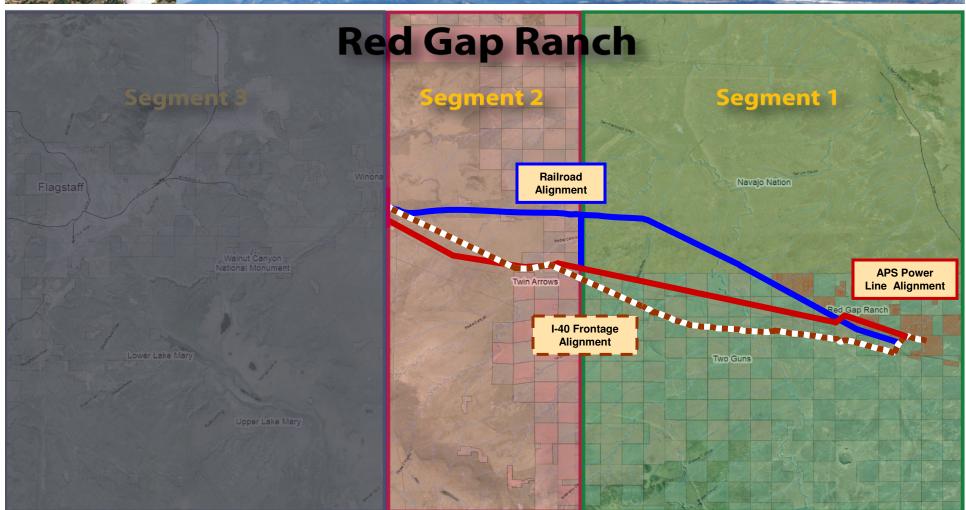


Remaining Alignments for Detailed Study and Model



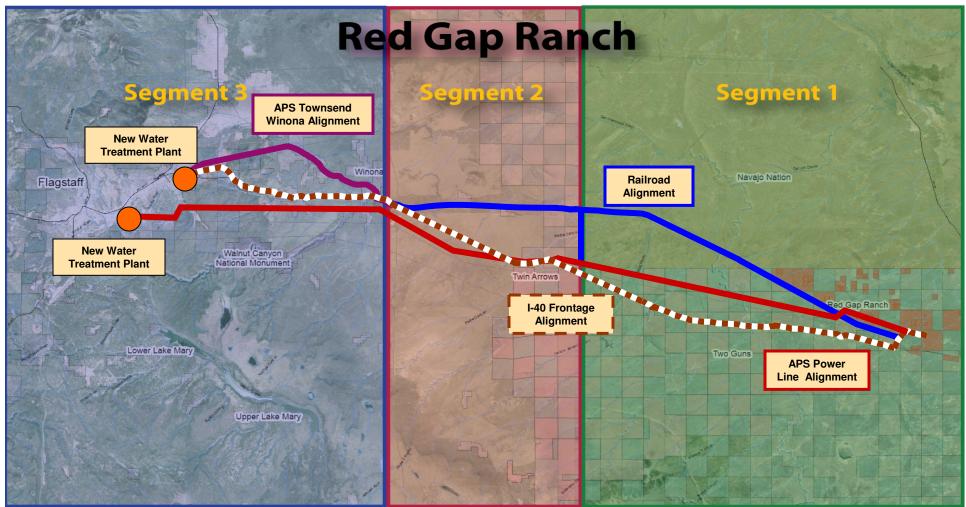


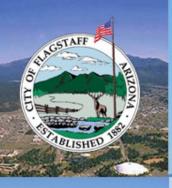
Remaining Alignments for Detailed Study and Model





Remaining Alignments for Detailed Study and Model





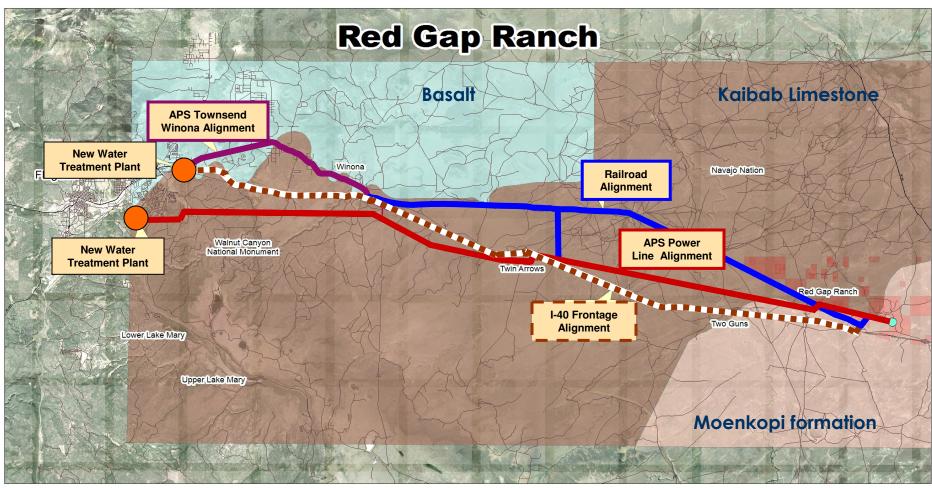
Data Gathering and Analysis on Studied Routes

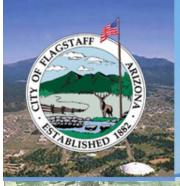


- **@** Geotechnical
- **@** Environmental
- **@** Land
- @ Cost

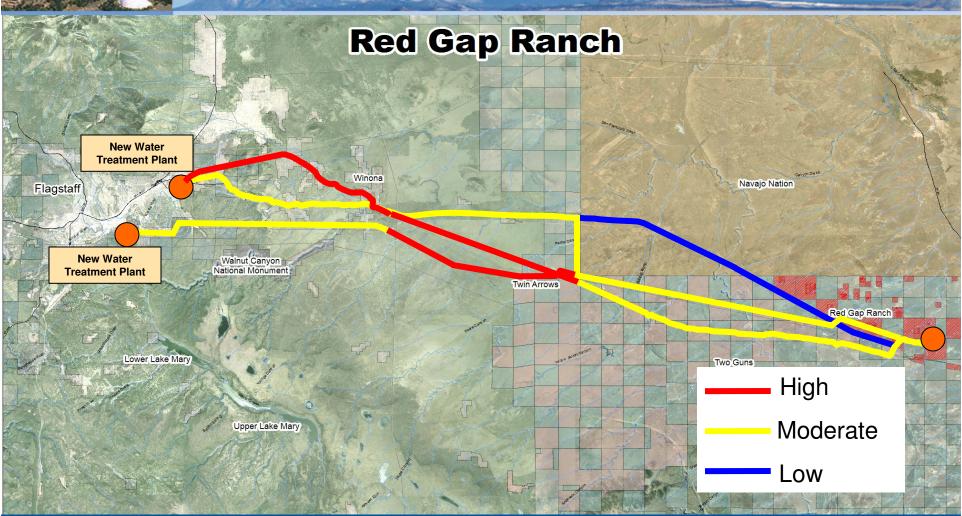


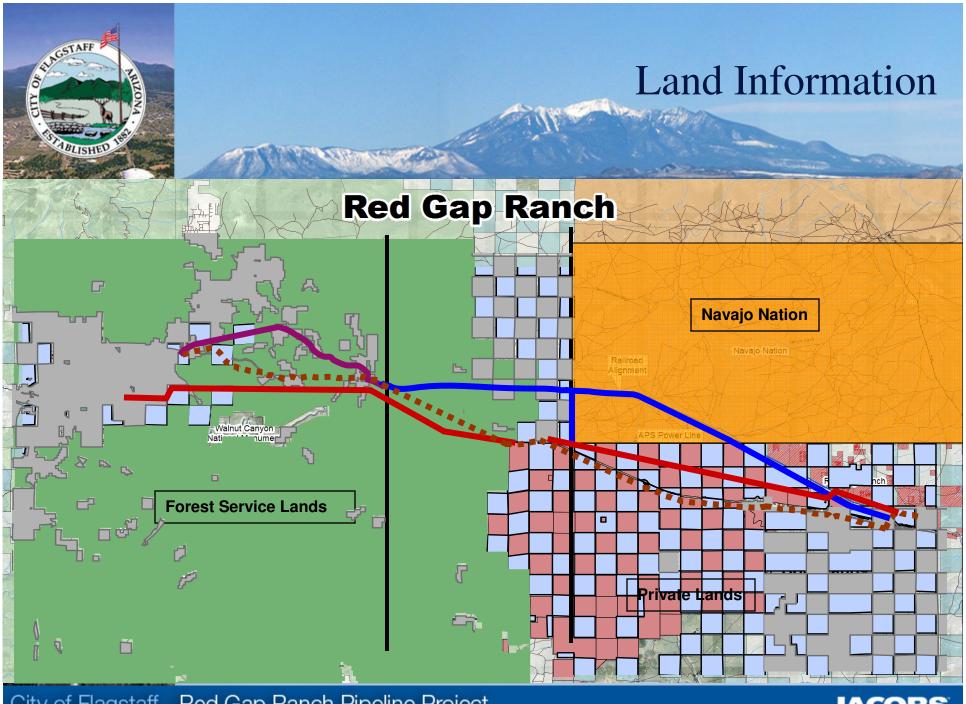
Geotechnical Information

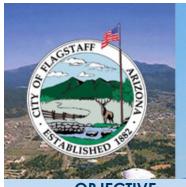




Archeological Impact/Disturbance







City of Flagstaff - Red Gap Ranch Pipeline Project

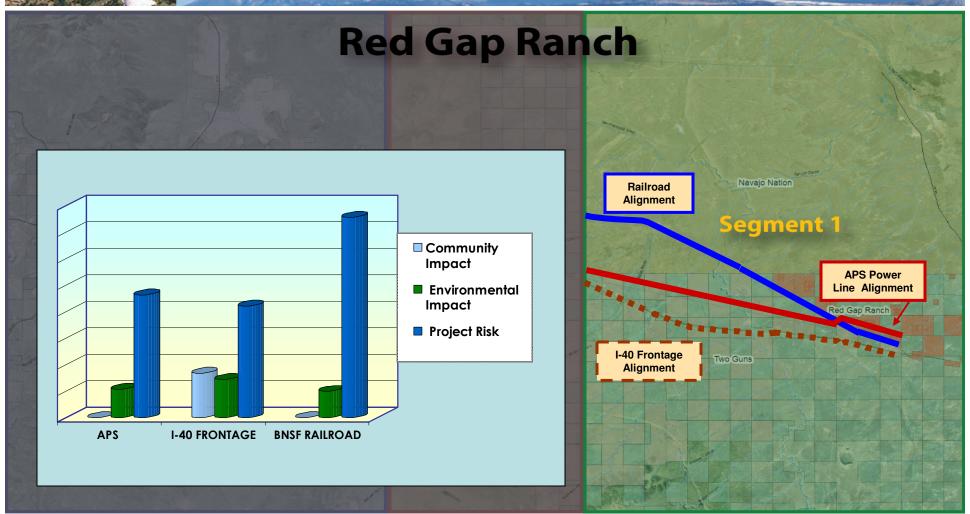
Evaluation Model

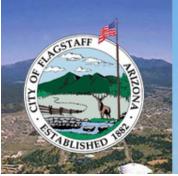
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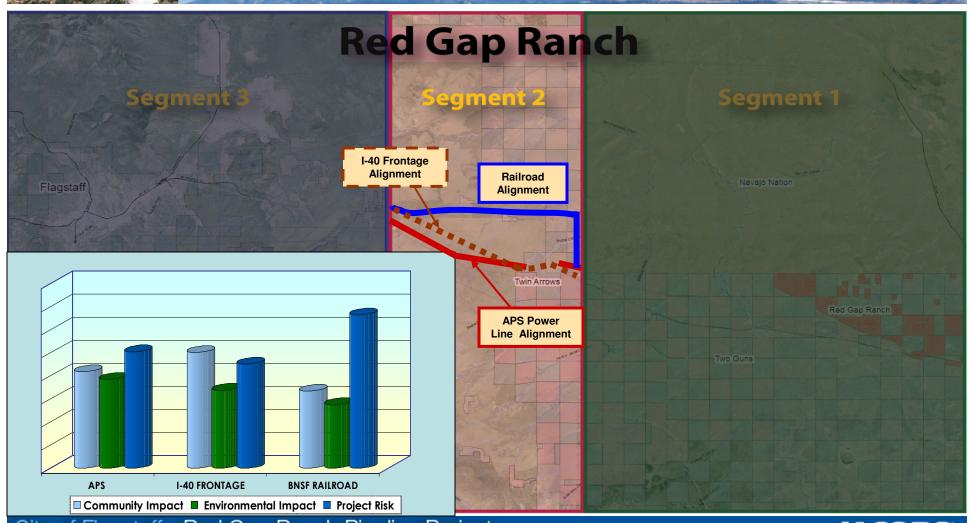


Segment 1 Results





Segment 2 Results

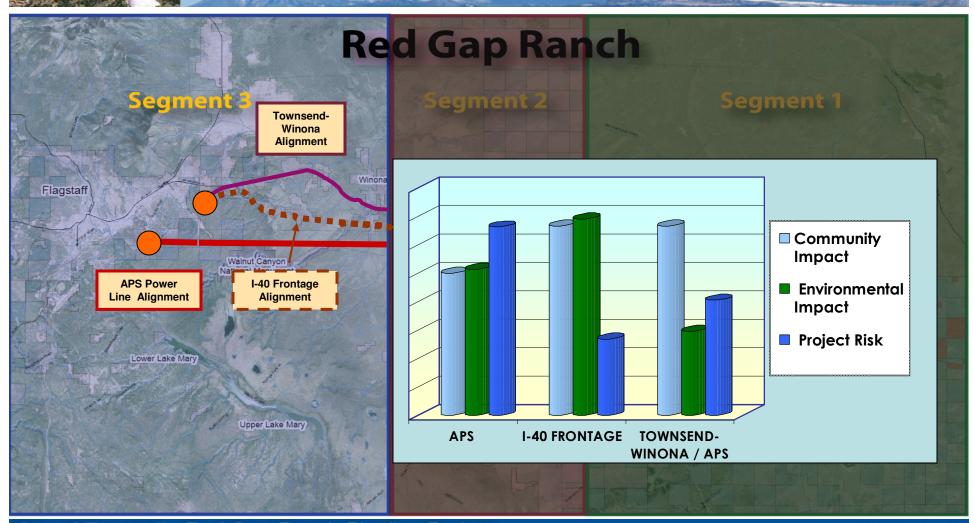


City of Flagstaff - Red Gap Ranch Pipeline Project

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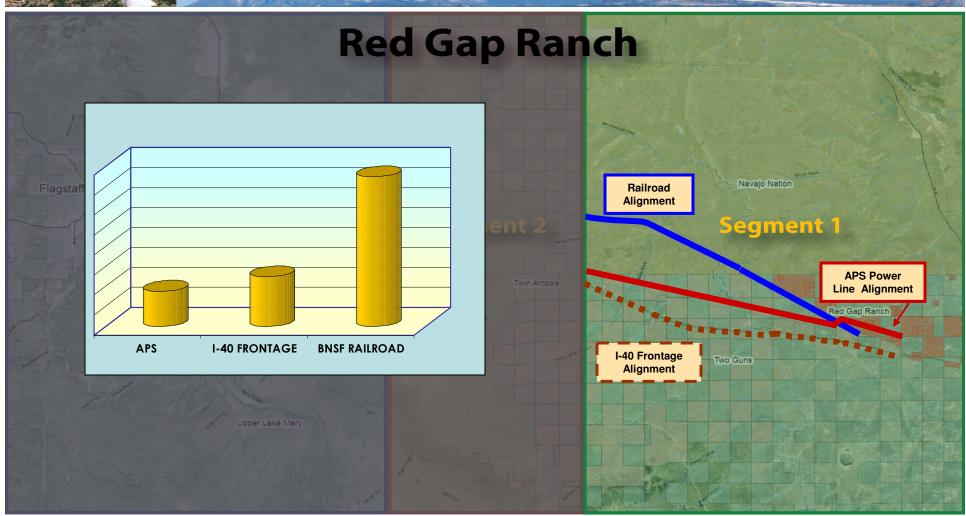


Segment 3 Results



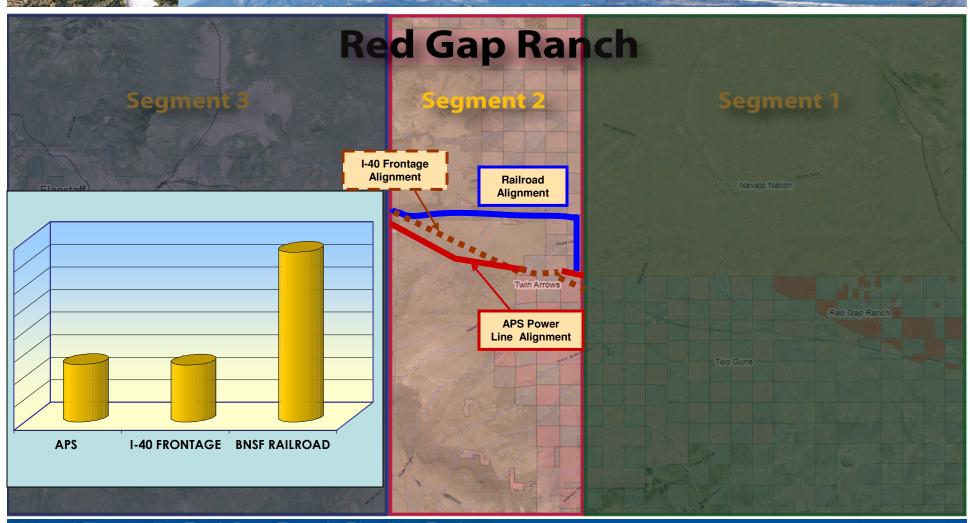


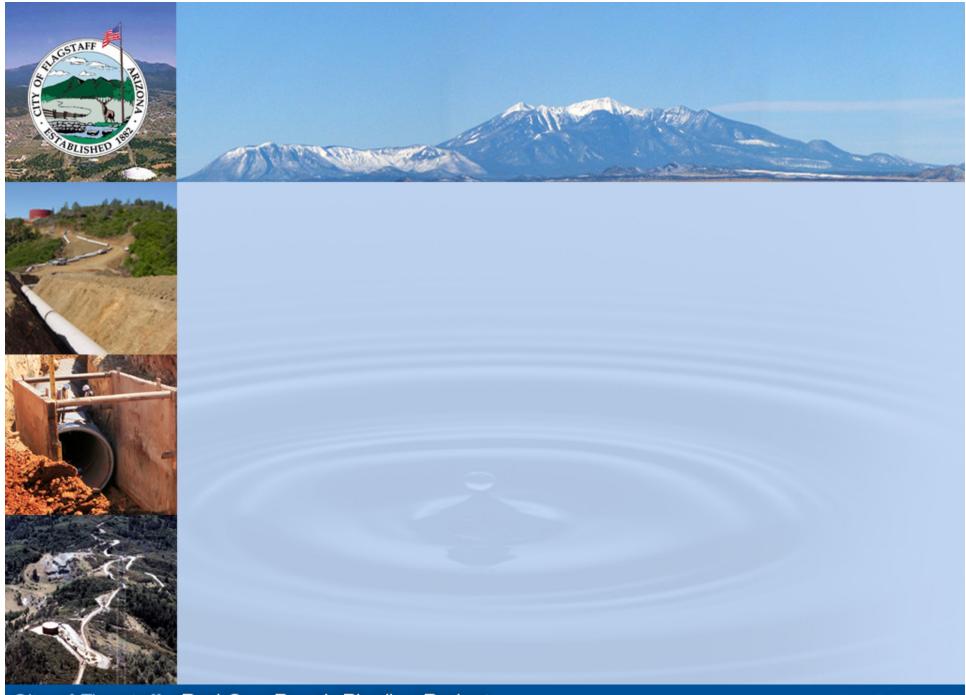
Segment 1 Cost Comparison





Segment 2 Cost Comparison





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